

# RURAL WORKS DEPARTMENT



**GOVERNMENT OF BIHAR**

**CIRCLE – R.W.D. works Circle, Kishanganj**

**DIVISION – R.W.D. works Division , Kishanganj-1**

Name of Work - Restoration of road from Mauzabari Patkoi to Patkoikalan

Block - Kochadhaman

Estimated cost - Rs 1225156.00

Year : 2020-21

Inspection Report for Flood damage work

Date:

1. Name of PIUs-

Executive Engineer Kishanganj -1

2. Name of Block/Road-

Kochadhenar / Mausabari to Mausabari  
patkoi

**A. For Road**

1. Damage Location/Chainage :

2. Damage Length

: 170 m.

3. Nature of Damage

: Damage and deep side cutting

4. Details of Restoration

i Material being used in Restoration

Bamboo, Brick bats,

ii Equipment/Tools being used in Restoration works:

: sand, cement bags

iii Procedure taken up in Restoration works

: Tractor

iv Restored Length

: manual

: 170 m.

**B. For Bridge**

1. Damage Location/Chainage :

2. Damage Length

:

3. Nature of Damage

:

4. Details of Restoration

:

i Material being used in Restoration

:

ii Equipment/Tools being used in Restoration works:

:

iii Procedure taken up in Restoration works

:

iv Restored Length

:

  
13-12-20

Signature of JE/AE/EE

  
13/12/20  
AE

  
13/12/20

Signature

कार्यपालक अभियन्ता  
(Name of Inspector)  
ग्रामीण कार्य विभाग  
कार्य प्रमण्डल, अररिया

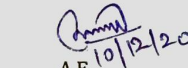
## Detailed Estimate

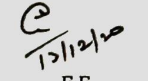
Name of work :-

Restoration of road from Mauzabari Patkoī to Patkoikalan

| Sl No                                     | Item                                                                                                                                                                                                                                      | No    | Length       | Width | Height   | Qty    | Unit   | Rate      | Amount        |           |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------|-------|----------|--------|--------|-----------|---------------|-----------|
| 1                                         | Providing and cutting of 62 mm to 75 mm dia bamboo piles to size and making shoes, all complete job -----E/I                                                                                                                              | 89    | 3.50         | -     | -        | 311.50 |        |           |               |           |
|                                           |                                                                                                                                                                                                                                           | 78    | 3.00         | -     | -        | 234.00 |        |           |               |           |
|                                           |                                                                                                                                                                                                                                           | Total |              |       |          |        | 545.50 | RM        | 50.20         | 27384.00  |
| 2                                         | Providing, fitting and fixing 62 mm to 75 mm dia bamboo runners in position at every vertical pile with 150 mm long nails or 38 swg G.I. wire including cost of G.I. wire or nails complete job as per specification and direction of E/I | 5     | 80.00        | -     | -        | 400.00 |        |           |               |           |
|                                           |                                                                                                                                                                                                                                           | 5     | 90.00        | -     | -        | 450.00 |        |           |               |           |
|                                           |                                                                                                                                                                                                                                           | Total |              |       |          |        | 850.00 | RM        | 28.53         | 24251.00  |
| 3                                         | Providing and filling empty cement bags with local sand, stitching the bags and placing including supply of sutli etc. all complete job ----E/I                                                                                           | 1     | 80.00        | 1.50  | 1.80     | 216.00 |        |           |               |           |
|                                           |                                                                                                                                                                                                                                           | 1     | 90.00        | 1.50  | 1.80     | 243.00 |        |           |               |           |
|                                           |                                                                                                                                                                                                                                           | Total |              |       |          |        | 459.00 | cum       |               |           |
|                                           |                                                                                                                                                                                                                                           | =     | 16209.59 cft | Say   | 13508.00 | Nos    | 38.14  | 515195.00 |               |           |
| 4                                         | Providing laying and spreading brick bats in Road ditches all complete as per approved design, specifications and direction of E/I                                                                                                        | 1     | 80.00        | 1.50  | 1.20     | 144.00 |        |           |               |           |
|                                           |                                                                                                                                                                                                                                           | 1     | 90.00        | 1.20  | 0.90     | 97.20  |        |           |               |           |
|                                           |                                                                                                                                                                                                                                           | Total |              |       |          |        | 241.20 | cum       | 2145.02       | 517379.00 |
| Total:-                                   |                                                                                                                                                                                                                                           |       |              |       |          |        |        |           | Rs 1084209.00 |           |
| Add GST @ 12 % :-                         |                                                                                                                                                                                                                                           |       |              |       |          |        |        |           | Rs 130105.00  |           |
| Add LC @ 01 % :-                          |                                                                                                                                                                                                                                           |       |              |       |          |        |        |           | Rs 10842.00   |           |
| Total cost of Restoration with GST & LC:- |                                                                                                                                                                                                                                           |       |              |       |          |        |        |           | Rs 1225156.00 |           |

  
J.E.  
RWD  
Kochadhaman

  
A.E.  
R.W.D  
Kochadhaman

  
E.E.  
R.W.D  
Kishanganj - I

Technically approved for ₹ 1225156/-

(Rs. twelve Lacs twenty thousand and one hundred)

Rd. No. 10/12/20

  
25/1/20

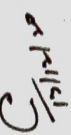
अधीक्षण अभियन्ता  
ग्रामीण कार्य विभाग  
कार्य अंचल, किशनगंज

# LEAD CHART

| S.L. No. | Name of material    | Source       | Mode of transport | From       | To   | Lead in K.M  |             | Loading  | Unloading | Total + Unloading |
|----------|---------------------|--------------|-------------------|------------|------|--------------|-------------|----------|-----------|-------------------|
|          |                     |              |                   |            |      | Surface Road | Katcha Road |          |           |                   |
| 1        | 2                   |              | 3                 | 4          | 5    | 6            | 7           | 8        | 9         | 10                |
| 1        | Bricks              | Local Kiln   | By road           | Local Kiln | Site | 7            | 1           | 203.05   | 203.05    | 406.10            |
| 2        | Fine sand           | Local source | By road           | Local      | Site | 2            | 1           | 59.43    | 37.10     | 96.53             |
| 3        | Coarse Sand         | Chopra       | By road           | Chopra     | Site | 80           | 0           | 59.43    | 37.10     | 96.53             |
| 4        | Boulder             | Siliguri     | By road           | Siliguri   | Site | 120          | 0           | 118.86   | 59.43     | 178.29            |
| 6        | Stone metal for GSB | Siliguri     | By road           | Siliguri   | Site | 120          | 0           | 118.86   | 59.43     | 178.29            |
| 7        | Seel                | Local        | By road           | Local      | Site | 5            | 0           | 118.86   | 59.43     | 178.29            |
| 8        | Hume pipe (1000 mm) | Purnia       | By road           | Purnia     | Site | 90           | 0           | 41.62    | 28.00     | 69.62             |
| 9        | Hume pipe (600 mm)  | Purnia       | By road           | Purnia     | Site | 90           | 0           | 17.84    | 12.00     | 29.84             |
| 10       | Bamboo 62 to 75 mm  | Local        | By road           | Local      | Site | 5            | 5           | 1,112.00 | 1,112.00  | 2,224.00          |

  
 8-12-20  
 J.E.  
 RWD  
 Kishanganj-1

  
 10/12/20  
 A.E.  
 R.W.D  
 Kishanganj-1

  
 12/12/20  
 E.E.  
 R.W.D  
 Kishanganj - I

**FDR 2020  
RATE ANALYSIS**

| Sl. No. | Item No. | Description                                                                                                                                                                                                                                                                                                                                                                                                   | Unit       | Quantity | Rate     | Amount in Rs   |
|---------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|----------|----------------|
| 10.     | (i)      | Excavation in cutting in soil by manual means with lead up to 50 m<br>Excavation for roadway in soil using manual means for carrying of cut earth to embankment site with a lift upto 1.5 m and lead upto 50 m<br>as per technical specification clause 302.3<br>Unit = cum<br>Taking output = 120 cum                                                                                                        |            |          |          |                |
|         | a)       | Labour                                                                                                                                                                                                                                                                                                                                                                                                        |            |          |          |                |
|         |          | Male                                                                                                                                                                                                                                                                                                                                                                                                          | day        | 1.80     | 305.00   | 549.00         |
|         |          | Female (Unskilled)                                                                                                                                                                                                                                                                                                                                                                                            | day        | 45.00    | 267.00   | 12,015.00      |
|         | b)       | Overheads @ 6 % on (a)                                                                                                                                                                                                                                                                                                                                                                                        |            |          |          |                |
|         | c)       | Contractor's profit @ 0% on (a+b)                                                                                                                                                                                                                                                                                                                                                                             |            |          |          |                |
|         | c)       | Cost for 120 cum = a+b+c                                                                                                                                                                                                                                                                                                                                                                                      |            |          |          | 0.00           |
|         |          | Rate per cum = (a+b+c)/120                                                                                                                                                                                                                                                                                                                                                                                    |            |          |          | 13,464.00      |
|         |          | <b>Total Cost</b>                                                                                                                                                                                                                                                                                                                                                                                             | <b>CUM</b> |          |          | <b>112.20</b>  |
| 3       | 3.3      | 301.5 Construction of embankment with material obtained from road way cutting<br>(Construction of embankment with approved materials deposited at site and obtained from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of Tables 300.1 and 300.2 as per Technical Specification Clause 301.5<br>Unit = cum<br>Taking output = 100 cum |            |          |          |                |
|         | a)       | Labour                                                                                                                                                                                                                                                                                                                                                                                                        |            |          |          |                |
|         |          | Male                                                                                                                                                                                                                                                                                                                                                                                                          | day        | 0.02     | 305.00   | 6.10           |
|         |          | Mazdoor (Unskilled)                                                                                                                                                                                                                                                                                                                                                                                           | day        | 0.50     | 287.00   | 143.50         |
|         | b)       | Machinery                                                                                                                                                                                                                                                                                                                                                                                                     |            |          |          |                |
|         |          | Dozer D-50 for spreading @ 100 cum per hour                                                                                                                                                                                                                                                                                                                                                                   | hour       | 0.50     | 3,337.90 | 1,668.95       |
|         |          | Tractor mounted grader arrangement for grading @ 100 cum per hour                                                                                                                                                                                                                                                                                                                                             | hour       | 1.00     | 573.20   | 573.20         |
|         |          | Water tanker 6 kl capacity                                                                                                                                                                                                                                                                                                                                                                                    | hour       | 2.00     | 184.00   | 368.00         |
|         |          | Three wheel 80-100 kN Static Roller                                                                                                                                                                                                                                                                                                                                                                           | hour       | 1.25     | 803.00   | 1,003.75       |
|         | c)       | Material                                                                                                                                                                                                                                                                                                                                                                                                      |            |          |          |                |
|         |          | Water                                                                                                                                                                                                                                                                                                                                                                                                         | kl         | 12.00    | 40.00    | 480.00         |
|         |          | Compensation for earth                                                                                                                                                                                                                                                                                                                                                                                        | cum        | 100.00   | 34.81    | 3,481.00       |
|         | d)       | Overheads @ 6 % on (a+b+c)                                                                                                                                                                                                                                                                                                                                                                                    |            |          |          |                |
|         | e)       | Contractor's profit @ 10% on (a+b+c+d)                                                                                                                                                                                                                                                                                                                                                                        |            |          |          | 0.00           |
|         |          | Rate for 100 cum = a+b+c+d+e                                                                                                                                                                                                                                                                                                                                                                                  |            |          |          | 7,724.50       |
|         |          | <b>Rate per cum = (a+b+c+d+e)/100=</b>                                                                                                                                                                                                                                                                                                                                                                        |            |          |          | <b>77.25</b>   |
|         |          | <b>Total Cost</b>                                                                                                                                                                                                                                                                                                                                                                                             | <b>CUM</b> |          |          | <b>77.25</b>   |
|         |          | <b>Grand total = 112.2 + 77.25 =</b>                                                                                                                                                                                                                                                                                                                                                                          | <b>CUM</b> |          |          | <b>189.45</b>  |
| 3       | 9.3      | 1100 Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row<br>Providing and laying reinforced cement concrete pipe NP3 for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets Clause 1106.       |            |          |          |                |
|         | A.       | 600 MM DIA<br>Unit = m<br>Taking output = 7.5 m<br>(5 pipes of 2.5 m length each)                                                                                                                                                                                                                                                                                                                             |            |          |          |                |
|         | a)       | Material                                                                                                                                                                                                                                                                                                                                                                                                      |            |          |          |                |
|         |          | i) Sand at site                                                                                                                                                                                                                                                                                                                                                                                               | cum        |          | 175.80   | 0.00           |
|         |          | ii) Cement at site                                                                                                                                                                                                                                                                                                                                                                                            | ton        |          | 4850.80  | 0.00           |
|         |          | iii) RCC pipe NP 3 pipe including collar at site                                                                                                                                                                                                                                                                                                                                                              | m          | 7.50     | 2075.92  | 15569.40       |
|         | b)       | Labour                                                                                                                                                                                                                                                                                                                                                                                                        |            |          |          |                |
|         |          | Male                                                                                                                                                                                                                                                                                                                                                                                                          | day        | 0.04     | 305.00   | 12.20          |
|         |          | Mason (1st class)                                                                                                                                                                                                                                                                                                                                                                                             | day        | 0.12     | 388.00   | 46.56          |
|         |          | Mazdoor (Unskilled)                                                                                                                                                                                                                                                                                                                                                                                           | day        | 0.96     | 287.00   | 275.52         |
|         | c)       | Overheads @ 6 % on (a+b)                                                                                                                                                                                                                                                                                                                                                                                      |            |          |          |                |
|         | d)       | Contractor's profit @ 0% on (a+b+c)                                                                                                                                                                                                                                                                                                                                                                           |            |          |          | 0.00           |
|         | e)       | Carriage                                                                                                                                                                                                                                                                                                                                                                                                      |            |          |          |                |
|         |          | i) Sand at site                                                                                                                                                                                                                                                                                                                                                                                               | cum        | 0        | 2107.51  | 0.00           |
|         |          | ii) Cement at site                                                                                                                                                                                                                                                                                                                                                                                            | ton        | 0        | 5547.44  | 0.00           |
|         |          | iii) RCC pipe NP 3 pipe including collar at site                                                                                                                                                                                                                                                                                                                                                              | m          | 7.50     | 921.38   | 6910.35        |
|         |          | Cost for 7.5m = (a+b+c)                                                                                                                                                                                                                                                                                                                                                                                       |            |          |          | 22814.03       |
|         |          | Rate per m = (a+b+c)/7.5                                                                                                                                                                                                                                                                                                                                                                                      |            |          |          | 3041.87        |
|         |          | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                  |            |          |          | <b>3041.87</b> |
|         |          | <b>Total Cost</b>                                                                                                                                                                                                                                                                                                                                                                                             | <b>M</b>   |          |          | <b>3041.87</b> |
| 4       | 9.3      | 1100 Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row<br>Providing and laying reinforced cement concrete pipe NP3 for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets Clause 1106.       |            |          |          |                |
|         | B.       | 1000 MM DIA                                                                                                                                                                                                                                                                                                                                                                                                   |            |          |          |                |

|   |                 |       |                                                                                                                                                                                                                                                                                                                                                                 |                      |      |        |            |  |
|---|-----------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------|--------|------------|--|
|   |                 |       | Unit = m<br>Taking output = 7.5 m<br>(3 pipes of 2.5 m length each)                                                                                                                                                                                                                                                                                             |                      |      |        |            |  |
|   |                 |       | a) Material                                                                                                                                                                                                                                                                                                                                                     |                      |      |        |            |  |
|   |                 |       | i) Sand at site                                                                                                                                                                                                                                                                                                                                                 |                      |      |        |            |  |
|   |                 |       | ii) Cement at site                                                                                                                                                                                                                                                                                                                                              |                      |      |        |            |  |
|   |                 |       | iii) RCC pipe NP 3 pipe including collar at site                                                                                                                                                                                                                                                                                                                |                      |      |        |            |  |
|   |                 |       | Rate                                                                                                                                                                                                                                                                                                                                                            |                      |      |        |            |  |
|   |                 |       | b) Labour                                                                                                                                                                                                                                                                                                                                                       |                      |      |        |            |  |
|   |                 |       | Fitter                                                                                                                                                                                                                                                                                                                                                          |                      |      |        |            |  |
|   |                 |       | Mason (1st class)                                                                                                                                                                                                                                                                                                                                               |                      |      |        |            |  |
|   |                 |       | Mazdoor (Unskilled)                                                                                                                                                                                                                                                                                                                                             |                      |      |        |            |  |
|   |                 |       | c) Overheads @ 6% on (a+b)                                                                                                                                                                                                                                                                                                                                      |                      |      |        |            |  |
|   |                 |       | d) Contractor's profit @ 0% on (a+b+c)                                                                                                                                                                                                                                                                                                                          |                      |      |        |            |  |
|   |                 |       | e) Carriage                                                                                                                                                                                                                                                                                                                                                     |                      |      |        |            |  |
|   |                 |       | i) Sand at site                                                                                                                                                                                                                                                                                                                                                 |                      |      |        |            |  |
|   |                 |       | ii) Cement at site                                                                                                                                                                                                                                                                                                                                              |                      |      |        |            |  |
|   |                 |       | iii) RCC pipe NP 3 pipe including collar at site                                                                                                                                                                                                                                                                                                                |                      |      |        |            |  |
|   |                 |       | Cost for 7.5m = (a+b+c+d)                                                                                                                                                                                                                                                                                                                                       |                      |      |        |            |  |
|   |                 |       | Rate per m = (a+b+c+d)/7.5                                                                                                                                                                                                                                                                                                                                      |                      |      |        |            |  |
|   |                 |       | Total                                                                                                                                                                                                                                                                                                                                                           |                      |      |        |            |  |
| 5 | 9.5<br>(C)      | 1100  | Providing and Laying Reinforced Cement Concrete Pipe NPS as per Design in Double Row<br>Providing and laying reinforced cement concrete pipe NPS for culverts on first class bedding of granular material in double row with parapets as per Clause 1106.<br>2 X 1000 MM DIA<br>Unit = m<br>Taking output = 7.5 m<br>(6 pipes of 2.5 m length each in two rows) |                      |      |        |            |  |
|   |                 |       | a) Material                                                                                                                                                                                                                                                                                                                                                     |                      |      |        |            |  |
|   |                 |       | i) Sand at site                                                                                                                                                                                                                                                                                                                                                 |                      |      |        |            |  |
|   |                 |       | ii) Cement at site                                                                                                                                                                                                                                                                                                                                              |                      |      |        |            |  |
|   |                 |       | iii) RCC pipe NP 3 pipe including collar at site                                                                                                                                                                                                                                                                                                                |                      |      |        |            |  |
|   |                 |       | Rate                                                                                                                                                                                                                                                                                                                                                            |                      |      |        |            |  |
|   |                 |       | b) Labour                                                                                                                                                                                                                                                                                                                                                       |                      |      |        |            |  |
|   |                 |       | Fitter                                                                                                                                                                                                                                                                                                                                                          |                      |      |        |            |  |
|   |                 |       | Mason (1st class)                                                                                                                                                                                                                                                                                                                                               |                      |      |        |            |  |
|   |                 |       | Mazdoor (Unskilled)                                                                                                                                                                                                                                                                                                                                             |                      |      |        |            |  |
|   |                 |       | c) Overheads @ 6% on (a+b)                                                                                                                                                                                                                                                                                                                                      |                      |      |        |            |  |
|   |                 |       | d) Contractor's profit @ 0% on (a+b+c)                                                                                                                                                                                                                                                                                                                          |                      |      |        |            |  |
|   |                 |       | e) Carriage                                                                                                                                                                                                                                                                                                                                                     |                      |      |        |            |  |
|   |                 |       | i) Sand at site                                                                                                                                                                                                                                                                                                                                                 |                      |      |        |            |  |
|   |                 |       | ii) Cement at site                                                                                                                                                                                                                                                                                                                                              |                      |      |        |            |  |
|   |                 |       | iii) RCC pipe NP 3 pipe including collar at site                                                                                                                                                                                                                                                                                                                |                      |      |        |            |  |
|   |                 |       | Cost for 7.5m = (a+b+c)                                                                                                                                                                                                                                                                                                                                         |                      |      |        |            |  |
|   |                 |       | Rate per m = (a+b+c)/7.5                                                                                                                                                                                                                                                                                                                                        |                      |      |        |            |  |
|   |                 |       | Total                                                                                                                                                                                                                                                                                                                                                           |                      |      |        |            |  |
| 6 | WRD<br>5.7.40.1 |       | Providing and Placing Sand bags including all material and Labour for filling empty cement bags with local sand, stitching the bags and placing including supply of sutll etc. all complete as per approved design, specifications and direction of E/I                                                                                                         |                      |      |        |            |  |
|   |                 |       | Unit :-<br>Taking Out put:-                                                                                                                                                                                                                                                                                                                                     | Per % nos<br>100 nos |      |        |            |  |
|   |                 | M-159 | Cost of E.C. Bags                                                                                                                                                                                                                                                                                                                                               | %                    | 100  | 8.46   | 846.00     |  |
|   |                 |       | Cost of Sand (100x1.2/35.3)/(120Cfr)                                                                                                                                                                                                                                                                                                                            | cum                  | 3.40 | 141.05 | 452.25     |  |
|   |                 |       |                                                                                                                                                                                                                                                                                                                                                                 |                      |      |        | 1328.29    |  |
|   |                 | b)    | Overheads @ 0% on (a+b+c)                                                                                                                                                                                                                                                                                                                                       |                      |      |        |            |  |
|   |                 | c)    | Overheads @ 5%                                                                                                                                                                                                                                                                                                                                                  |                      |      |        |            |  |
|   |                 | d)    | Carriage of Sand                                                                                                                                                                                                                                                                                                                                                | cum                  | 3.40 | 305.77 | 1041.32    |  |
|   |                 | e)    | For filling & stitching & stacking (Sub analysis below)                                                                                                                                                                                                                                                                                                         |                      |      |        | 583.88     |  |
|   |                 | f)    | For Placing (Sub Analysis below)                                                                                                                                                                                                                                                                                                                                |                      |      |        | 861.00     |  |
|   |                 |       | Rate Per % Bags                                                                                                                                                                                                                                                                                                                                                 |                      |      |        | Rs.3814.49 |  |
|   |                 |       | Final Rate Per % Bags                                                                                                                                                                                                                                                                                                                                           |                      |      |        | Rs.3814.50 |  |
|   |                 |       | Sub Analysis                                                                                                                                                                                                                                                                                                                                                    |                      |      |        |            |  |
|   |                 | A     | For filling & stitching & stacking                                                                                                                                                                                                                                                                                                                              |                      |      |        |            |  |
|   |                 | (a)   | Unskilled mazdoor for filling sand into bags and sewing                                                                                                                                                                                                                                                                                                         | nos                  | 2.00 | 287.00 | 574.00     |  |

|           |       |     |                                                                                                                                                                                                                                                                     |                    |           |             |                    |
|-----------|-------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------|-------------|--------------------|
|           |       |     | b) Subtotal                                                                                                                                                                                                                                                         | Kg                 | 0.50      | 19.75       | 9.88               |
|           |       |     | c) Overheads @ 0% on (a+b+c)                                                                                                                                                                                                                                        |                    |           |             |                    |
|           |       |     | d) Overheads @ 5 %                                                                                                                                                                                                                                                  |                    |           |             |                    |
|           |       |     | (Cost for 100 nos = a+b+c+d)                                                                                                                                                                                                                                        |                    |           |             | 583.88             |
|           |       |     | Rate per % Nos =                                                                                                                                                                                                                                                    |                    |           |             | 583.88             |
|           |       |     | Final Rate For filling & stitching & stacking                                                                                                                                                                                                                       |                    |           |             | Rs.583.88          |
|           |       |     |                                                                                                                                                                                                                                                                     |                    | Per % nos | (a)         |                    |
| 5.7.40.1. | WRD   |     | Labour rate for filling of E.C.Bags with stitching and stacking                                                                                                                                                                                                     |                    |           |             |                    |
| 1         | B     |     | For Placing                                                                                                                                                                                                                                                         |                    |           |             |                    |
|           |       |     | (a) Unskilled mazdoor for carrying filled bags and placing to work site                                                                                                                                                                                             | nos                | 3         | 287.00      | 861.00             |
|           |       |     | b) Overheads @0% on (a+b+c)                                                                                                                                                                                                                                         |                    |           |             |                    |
|           |       |     | c) Overheads @5 %                                                                                                                                                                                                                                                   |                    |           |             |                    |
|           |       |     | Cost for 100 nos = a+b+c                                                                                                                                                                                                                                            |                    |           |             | 861.00             |
|           |       |     | Rate per % Nos =                                                                                                                                                                                                                                                    |                    |           |             | 861.00             |
|           |       |     | Final Rate                                                                                                                                                                                                                                                          |                    |           |             | Rs.861.00          |
|           |       |     | Only Labour Charge                                                                                                                                                                                                                                                  |                    | Per %Nos  | (b)         | Rs.1444.66         |
| 7         | 5.7.7 | WRD | Providing bamboo piles including Labour for cutting 62 mm to 75 mm dia sal bamboo piles to size and making shoes and driving etc. complete job as per specification and direction of E / I.                                                                         |                    | Per M     |             |                    |
|           |       |     | Unit :-                                                                                                                                                                                                                                                             |                    |           |             |                    |
|           |       |     | Taking Out put:-                                                                                                                                                                                                                                                    | 30.50              | Mtr       |             |                    |
|           |       |     | (Assuming 20 nos. pile sunk 1.525 mtr deep )                                                                                                                                                                                                                        |                    |           |             |                    |
|           |       |     | Total depth sunk 30.50 meter                                                                                                                                                                                                                                        |                    |           |             |                    |
|           |       | (a) | Labour                                                                                                                                                                                                                                                              |                    |           |             |                    |
|           |       |     | Carpenter Gr II                                                                                                                                                                                                                                                     | nos                | 0.25      | 345.00      | 86.25              |
|           |       |     | Unskilled mazdoor for piling                                                                                                                                                                                                                                        | nos                | 2.5       | 287.00      | 717.50             |
|           |       | (b) | Materials                                                                                                                                                                                                                                                           |                    |           |             |                    |
|           |       |     | Bamboo 75 mm to 62 mm dia                                                                                                                                                                                                                                           | m                  | 30.5      | 23.85       | 727.43             |
|           |       |     | Sub total                                                                                                                                                                                                                                                           |                    |           |             | 1521.19            |
|           |       | (c) | Overheads @5 %                                                                                                                                                                                                                                                      | %                  | 15        |             | 1531.16            |
|           |       |     | Total for 30.5 Mtr Length                                                                                                                                                                                                                                           |                    |           |             | 50.20              |
|           |       |     | Rate Per M                                                                                                                                                                                                                                                          |                    |           |             | Say Rs 50.20 Per M |
| 8         | 5.7.9 | WRD | Supplying fitting and fixing 62mm to 75 mm dia bamboo runners in position at every vertical pile with 150 mm long nails or 38 swg G.I. wire including cost of G.I. wire or nails, all material and Labour complete job as per specification and direction of E / I. |                    |           |             |                    |
|           |       |     | Unit :-                                                                                                                                                                                                                                                             | Per M              |           |             |                    |
|           |       |     | Taking Out put:-                                                                                                                                                                                                                                                    | 30.50              | Mtr       |             |                    |
|           |       | (a) | Materials                                                                                                                                                                                                                                                           |                    |           |             |                    |
|           |       |     | Cost of 150 mm long nails                                                                                                                                                                                                                                           | Kg                 | 0.5       | 55.84       | 27.92              |
|           |       |     | Bamboo 75 mm to 62 mm dia                                                                                                                                                                                                                                           | m                  | 30.5      | 23.85       | 727.43             |
|           |       | (b) | Labour                                                                                                                                                                                                                                                              |                    |           |             |                    |
|           |       |     | Carpenter Gr II                                                                                                                                                                                                                                                     | nos                | 0.125     | 345.00      | 43.13              |
|           |       |     | Unskilled mazdoor                                                                                                                                                                                                                                                   | nos                | 0.25      | 287.00      | 71.75              |
|           |       |     | Sub total                                                                                                                                                                                                                                                           |                    |           |             | 870.22             |
|           |       | (c) | Overheads @5 %                                                                                                                                                                                                                                                      |                    | 15 %      |             |                    |
|           |       |     | Total for 30.5 Mtr Length                                                                                                                                                                                                                                           |                    |           |             | 870.22             |
|           |       |     | Rate Per M                                                                                                                                                                                                                                                          |                    |           |             | 28.53              |
|           |       |     |                                                                                                                                                                                                                                                                     |                    | Say Rs    | 28.53 Per M |                    |
| 9         | 5.7.8 | WRD | Providing fitting and fixing splitte bamboo woven chachari in position with 20 swg G.I. wire or 75 mm to 100 mm long nails alternatively including cost of G.I. wire or nails, bamboo Labour for complete job as per specification and direction of E / I.          |                    |           |             |                    |
|           |       |     | Unit :-                                                                                                                                                                                                                                                             | Per M <sup>2</sup> |           |             |                    |
|           |       |     | Taking Out put:-                                                                                                                                                                                                                                                    | 9.30               | Sqm       |             |                    |
|           |       |     | (Assuming strip of 3.05x3.05 - 9.30 sqm )                                                                                                                                                                                                                           |                    |           |             |                    |

|     |                    |                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |            |          |                    |               |
|-----|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|--------------------|---------------|
|     |                    | <b>Materials</b><br>75 mm to 100 mm long nails<br>Bamboo 75 mm to 62 mm dia<br>(Bamboo @ 75mm = 3050/75= 40.67 say 41nos. X 3.05= 125.05m<br>Add for Lower Binder of Chachari 10 x 3.05 =30.5 m<br>Runner ( @150mm C/C) 7 x 3.05= 21.35m<br>(Total=143.35m, Hence, 176.9/6= 30 Nos) |                                                                                                                                                                                                                           | Kg         | 0.25     | 55.84              | 13.96         |
| (B) | Labour             | m                                                                                                                                                                                                                                                                                   | 143.35                                                                                                                                                                                                                    | 23.85      | 3418.90  |                    |               |
|     | Carpenter Gr II    |                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |            |          |                    |               |
|     | Unskilled mazdoor  | nos                                                                                                                                                                                                                                                                                 | 1                                                                                                                                                                                                                         | 345.00     | 345.00   |                    |               |
|     | Sub total          | nos                                                                                                                                                                                                                                                                                 | 1                                                                                                                                                                                                                         | 287.00     | 287.00   |                    |               |
| (c) | Overheads @5 %     |                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |            | 4064.86  |                    |               |
|     | Total for 9.30 SqM | 15                                                                                                                                                                                                                                                                                  | %                                                                                                                                                                                                                         |            | 4064.86  |                    |               |
|     | Rate Per SqM       |                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                           |            | 437.08   |                    |               |
| 10  | 9.2<br>(1)         | 1100 &<br>800                                                                                                                                                                                                                                                                       | <b>Sand filling or Type B ( First Class ) Bedding</b>                                                                                                                                                                     |            | Say Rs   | Per M <sup>2</sup> | 437.08        |
|     |                    |                                                                                                                                                                                                                                                                                     | Laying (First Class) bedding on well compacted sand, moorum or approved granular material as per Clause 1105 (II)                                                                                                         |            |          |                    |               |
|     |                    |                                                                                                                                                                                                                                                                                     | Filling in foundation trenches as per drawing and technical specification Clause 305.3.9                                                                                                                                  |            |          |                    |               |
|     | i.                 | Sand filling                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                           |            |          |                    |               |
|     |                    | Unit = cum                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                           |            |          |                    |               |
|     | a)                 | Labour                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                           |            |          |                    |               |
|     |                    | Mate                                                                                                                                                                                                                                                                                | day                                                                                                                                                                                                                       | 0.01       | 305.00   | 3.05               |               |
|     |                    | Mazdoor (Unskilled)                                                                                                                                                                                                                                                                 | day                                                                                                                                                                                                                       | 0.30       | 287.00   | 86.10              |               |
|     | b)                 | Material                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                           |            |          |                    |               |
|     |                    | Sand (assuming 20 per cent voids)                                                                                                                                                                                                                                                   | cum                                                                                                                                                                                                                       | 1.20       | 141.85   | 170.22             |               |
|     | c)                 | Overheads @ 6 % on (a+b)                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                           |            |          |                    |               |
|     | d)                 | Overheads @5 %                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                           |            |          | 0.00               |               |
|     |                    | <u>CARRIAGE COST</u>                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                           |            |          |                    |               |
|     |                    | sand                                                                                                                                                                                                                                                                                | Cum                                                                                                                                                                                                                       | 1.2        | 306.27   | 367.52             |               |
|     |                    | Rate per cum = a+b+c                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                           |            |          | 626.22             |               |
|     |                    |                                                                                                                                                                                                                                                                                     | <b>Total Cost</b>                                                                                                                                                                                                         | <b>CUM</b> |          |                    | <b>626.89</b> |
| 11  | WRD                | 5.7.40                                                                                                                                                                                                                                                                              | Construction of granular sub base using jhama meta/ Brick Bat vide WRD                                                                                                                                                    |            |          |                    |               |
|     |                    |                                                                                                                                                                                                                                                                                     | Providing and laying dry graded jhama khoa? Brickbat or stone filter under brick pitching or boulder pitching in slope or apron including light ramming etc.all complete job as per specification and direction of E / I. |            |          |                    |               |
|     |                    |                                                                                                                                                                                                                                                                                     | Unit = cum                                                                                                                                                                                                                |            |          |                    |               |
|     |                    |                                                                                                                                                                                                                                                                                     | Taking output = 2.832 cum                                                                                                                                                                                                 |            |          |                    |               |
|     | (a)                | Labour                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                           |            |          |                    |               |
|     |                    | Mazdoor (Unskilled)                                                                                                                                                                                                                                                                 | day                                                                                                                                                                                                                       | 0.00       | 305.00   | 0.00               |               |
|     |                    | Mazdoor (Unskilled)                                                                                                                                                                                                                                                                 | day                                                                                                                                                                                                                       | 3.00       | 287.00   | 861.00             |               |
|     |                    | Sub total of Labour for 2.832 Cum                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                           |            |          | 861.00             |               |
|     |                    | Labour charge for 1.00 cum                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                           |            |          | 304.03             |               |
|     | (b)                | Material                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                           |            |          |                    |               |
|     |                    | Brick bat:                                                                                                                                                                                                                                                                          | cum                                                                                                                                                                                                                       | 1.200      | 1,062.00 | 1,275.60           |               |
|     | (e)                | Carriage                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                           |            |          |                    |               |
|     |                    | Brick bat                                                                                                                                                                                                                                                                           | cum                                                                                                                                                                                                                       | 1.200      | 471.16   | 565.39             |               |
|     |                    | Cost for 1.00 cum = a+b+c+d+e                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                           |            |          | 2,145.02           |               |
|     |                    | Rate per cum = (a+b+c+d+e)                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                           |            |          | Rs.2145.02         |               |
|     |                    | <b>Final Rate</b>                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                           |            |          | <b>Rs.2145.02</b>  |               |

Sent  
25/12/20.  
J-E

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12/12/20